

## Cylinder head, reconditioning

Do not:  
 Valve spring compressor  
 Tool for valve grinding  
 One test indicator with magnetic base  
 One test indicator with angled base  
 Depth gauge  
 Side calipers  
 C-clamp

1. Place the cylinder head in a dip.  
**NOTE:**  
 Use backing on the work's jaws so that the cylinder head is not damaged.

Check spring force. Make sure that the lock plate's seal is not damaged.

2. Remove intake, intake washer, valve spring and valve with valve spring tool.



Figure 1

3. Remove the valve spindle's seal.
4. Clean the cylinder head and check that it is not damaged.
5. Measure the valve spindle clearance in the valve guide.  
 Allowed (in µm): max  
**NOTE:**  
 Valve guides should be replaced by an authorized valve workshop.

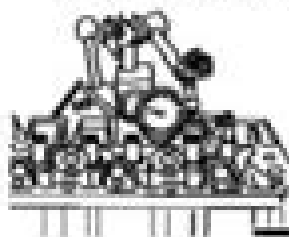


Figure 2

6. Take down the valve so that it does not rest against the seat.
7. Check the valves and measure them: valve spindle diameter, valve edge's thickness, valve plate diameter.  
 Size:

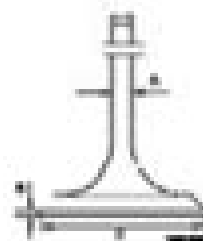


Figure 3

8. Check the valve seat edge and seat limits. Check limit for valve seat width: max.



Figure 4

9. Measure the distance between the valve plate and the cylinder head's seating surface. Valve's depth in cylinder head: max.



Figure 5

10. Measure the length of the valve spring, with uncrushed spring. Use side calipers. Length: max.



Figure 6

11. Grind the valve seat's angle with the intended grinding tool to grind in valves in the seat.  
 Valve seat angle, width: max.

# Volvo Diesel Engine Manual

**Marco Cascella**



## **Volvo Diesel Engine Manual:**

**Volvo S40 and V50 Diesel Owner's Workshop Manual, 07-13** Chris Randall, 2016-10 VOLVO PENTA MD5A MARINE DIESEL ENGINE Albin, 2014-03-01 The Autocar ,1988-06 **Cruising World** ,1985-07 **Volvo S40 and V50 Diesel (07-13) 07 to 62** Chris Randall, 2013-01-01 Part of the Haynes Service and Repair Manual Series this title covers Volvo S40 and V50 diesel cars made between 2007 and 2013 GCSE English for OCR John Reynolds, Ron Norman, 2002 This book is tailored to the OCR English GCSE specification so you can be sure all aspects are covered

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